



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  
**Rydbeck et al.**

Serial No.: 09/025,395

Filed: 18 February 1998

For: **Cellular Phone with Expansion  
Memory for Audio and Video Storage**

Attorney's Docket No. 4015-100

Examiner:

Moore, James K.

Art Unit: 2686

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Technology Center 2600

**DECLARATION OF NILS RYDBECK**

I, Nils Rydbeck, hereby declare as follows:

1) Not later than 20 May 1997, I conceived an invention tentatively entitled "Cellular Telephone with Expansion Memory." The invention was conceived while I was employed at Ericsson Inc. I prepared an Internal Memo briefly describing the invention on 20 May 1997. A copy of that Internal Memo is attached as Exhibit 1.

2) An Invention Disclosure describing my invention was prepared on or about about 3 June 1997 and presented to the Ericsson Patent Review Committee. A copy of the Invention Disclosure Cover Form is attached as Exhibit 2.

3) A Supplemental Invention Disclosure was prepared on or about 20 August 1997. A copy of the Supplemental Invention Disclosure is attached as Exhibit 3.

4) Ericsson Inc. employs a standard review process regarding patenting an invention. The process generally includes filing of a Patent Disclosure by the Inventors, e.g., Exhibits 2 and 3, reviewing the disclosure by a patent review committee, and instructing a patent agent or attorney to prepare and file the application. On average, this process took approximately 6 – 9 months from initial conception to filing during the relevant time period.

5) The Invention Disclosure was forwarded to an outside patent counsel working with Ericsson Inc., on or about 10 October 1997, with a request to prepare and file a patent

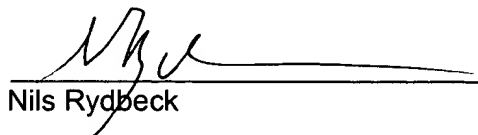
application. A copy of the corresponding instruction cover letter to the patent counsel is attached as Exhibit 4.

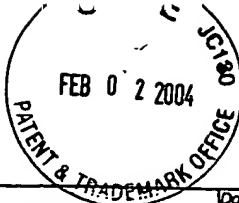
6) A draft patent application covering my invention was prepared by patent counsel and sent to me for comments on or about 19 January 1998. A copy of the corresponding cover letter is attached hereto as Exhibit 5. After revisions to the application based on my comments, and preparation of at least one more draft, the application was filed with the U.S.P.T.O. on or about 18 February 1998, receiving U.S. Application Serial No. 09/025,395.

7) The invention claimed in currently pending U.S. Application Serial No. 09/025,395, of which I am a named inventor, was conceived on or about 30 May 1997 and pursued with reasonable diligence until the filing of the corresponding application on or about 18 February 1998.

I hereby declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Jan 26 2004  
Date

  
Nils Rydbeck

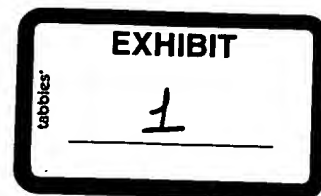


Prepared RT/EUS/TD Nils Rydbeck 919-472-7101		DocNo TD - 97:0033	
Approved TD (Nils Rydbeck)	Checked	Date 30-MAY-97	Rev A
		File m:\nls/ patent2.doc	

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**PATENT IDEA**

To prevent and investigate all sorts of combination ideas between phones and walkman functions I would like to disclose an idea that forces the issue.

**Idea:** (Handsfree Phone (Sports/Leisure/Travel/Heavy Use) TD:0029, 20-May-97)

- A combination of a wireless phone and a music player (recorder) based on voice (music) recorded and played from solid state memories
- A combination of a wireless phone and a video player (recorder) based on solid state memories
- A combination of a wireless phone and an insertable/optional memory card (module) that can be used for any of the two purposes above
- Music (video) can possibly be down loaded from the internet

**How was it solved before (prior art)?**

- You have one phone and one walkman
- We (John Fussell) and others (including patent applications sent to us for review) have suggested combinations of wireless phones and broadcast receivers. Wireless phones and CD players (tape players) and combinations of all three. Also GPS, navigation electronics, has been discussed as a combinations with these devices

**What is new with this idea?**

- No moving parts, only solid state memories for the entertainment part, for example, flash EPROMs. The only thing needed for the basic function is a larger memory. Headset accessories already used in phones can be used also for the entertainment part. A stereo version would be better - you have a 911 security device (the phone) when jogging (for example). You don't get that with a walkman and it is messy to run with both a phone and a walkman, i.e., you get both security and entertainment and you don't have to choose. If it is combined with GPS you know where you are, the 911 call can tell where you are and you still have entertainment and telephony.
- You can make a call with voice dialing while walking and running.

(wireless phone = phone or multimedia communicator or PDA or smart phone)



<b>Engineering Manager Recommendation</b>		<b>For Legal Operation Use</b>	
Name: <u>David R. Simon</u>		Docket Number: <u>EUSC1150-RMOT</u>	
Date: <u>16 June 1997</u>		Date Opened: <u>1997-06-04</u>	
Check Recommendation: <input type="checkbox"/> File: Disclosure Complete <input checked="" type="checkbox"/> File: Prepare Full Disclosure <input type="checkbox"/> Publish in TDB		<input type="checkbox"/> Do Not File (Reasons Attached) <input type="checkbox"/> Review Further <input type="checkbox"/> Keep as Formal Trade Secret	
		DRI /	

## Ericsson Inc. Invention Disclosure Cover Form

**EXHIBIT**

tabbies

21. Invention Title: Cellular Telephone with Expansion Memory

2. Disclosure Submitted by (Add additional sheets if more than three inventors):

	Inventor No. 1	Inventor No. 2	Inventor No. 3
(a) Full Name	Nils Rydbeck	JOHN FUSSELL	
(b) Home Address	202 Rutherglen Cary NC 27511	8704 MASTER CT RALEIGH, NC 27615	2844 Methylm Ct 27613
(c) Work Phone	919-472-7101	919-472-7782	
(d) Citizenship	Swedish	USA	
(e) Pay No.	23617	23994	
(f) Manager			
(g) Bus. Unit	RMOT	RMOT	
(h) Cost Center	L77100	L72573	

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3. Business Unit to which patent expenses should be charged: RMOT

4. Date invention conceived:

5. Date invention reduced to practice:

6. Identify (including dates) any past or anticipated disclosure outside the company, such as publication, offer for sale, actual sale, discussions with business partners, etc.:

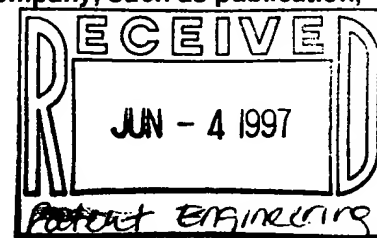
7. Invention made using government or non-Ericsson funding?:

8. Present or proposed use of the invention (Identify products and dates):

9. Identify related invention disclosures of which you are aware:

10. Please attach to this cover form your invention disclosure, along with any other relevant documentation (see "IPR at RTP" Web site for additional information on writing disclosures).

The invention described in the attached invention disclosure is hereby submitted under my employment agreement with Ericsson Inc.

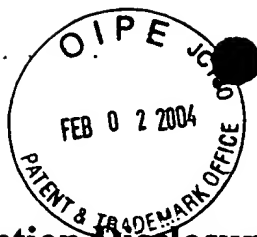


Inventor's Full Signature	Date	Witnessed, read, understood and signed by	Date
(1) <u>[Signature]</u>		(1)	
(2) <u>John P. Fussell</u>	<u>6-3-97</u>	(2)	
(3)		(3)	

Inventor: Submit to Kristen DeSimone, Davis-2B, Cubicle #2421, x7711.

Revision: 2/24/97

Ericsson Inc. Proprietary Information



## **Invention Disclosure -- Ericsson Confidential Information**

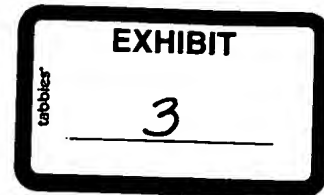
**Docket:** EUS01180-RMOT

**Title:** Cellular Telephone with Expansion Memory

**Inventors:** Nils Rydbeck and John Fussell

**Prepared by:** David R. Irvin, EUS-RTP Patent Engineering

**Date:** 20 August 1997



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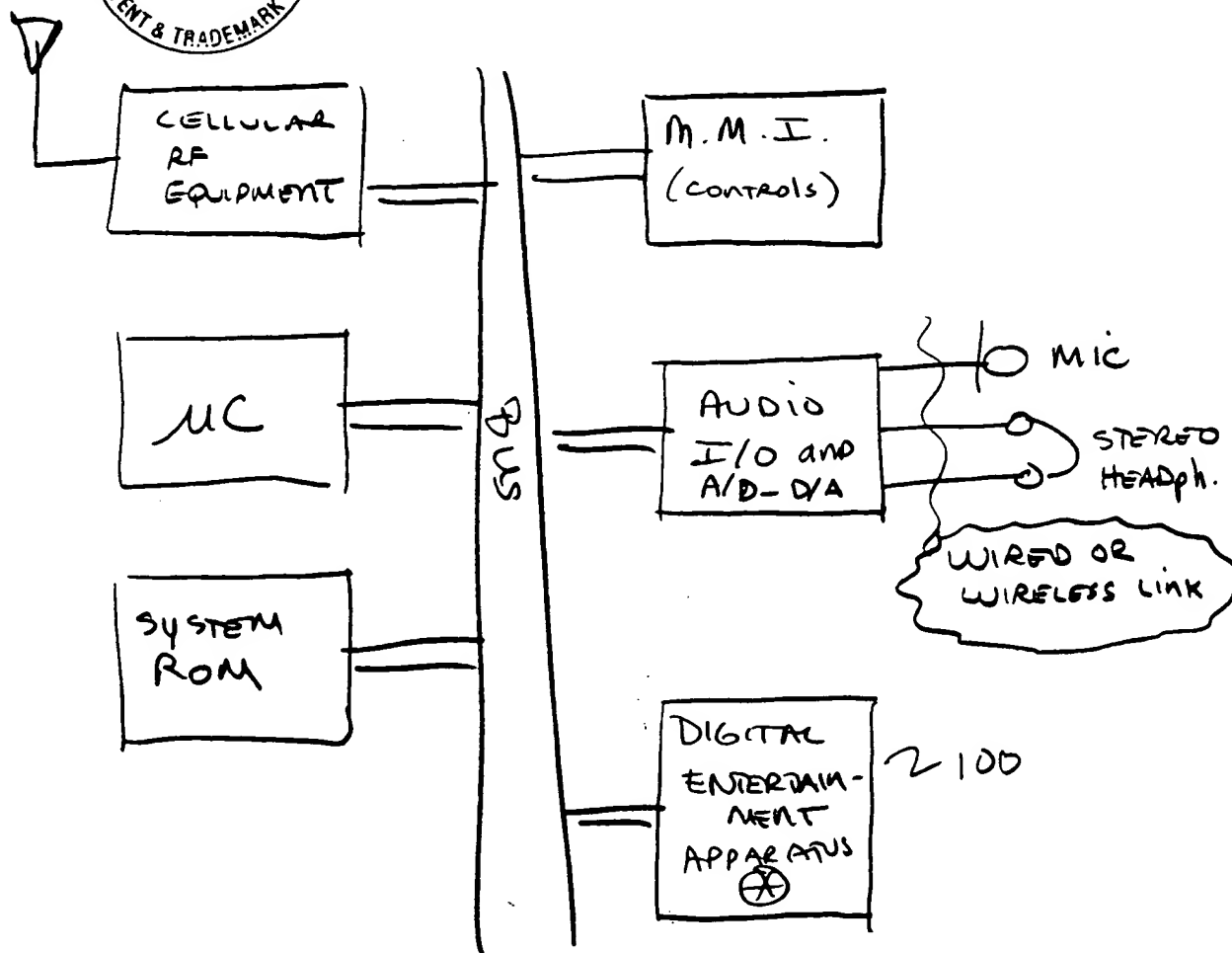
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### **Abstract**

A cellular telephone is provided with an internally integrated digital entertainment apparatus comprising an interchangeable ROM, an expansion RAM, a serial port, and a parallel port. Music or other audio signals are provided by the interchangeable ROM, or are loaded into the RAM through one of the ports from a CD player or from a PC that provides web access. Under control of the cellular telephone's microprocessor, the digitally stored audio signal is played-out through the telephone's headset, which in the preferred embodiment comprises stereo headphones which may be connected to the phone by a wired or a wireless link. Because of its integration into the cellular phone, the digital entertainment apparatus described here advantageously shares components already present in the cellular phone. Such saving would not be available if a CD player were simply aggregated with the phone. Moreover, the use of solid-state RAM or ROM as opposed to a rotating disc such as a CD eliminates the need for bounce-control circuitry. This enables the disclosed invention to be provide cellular communications and entertainment during athletic endeavors such as jogging, where a conventional CD player would fail.



US01180 - R1MOT



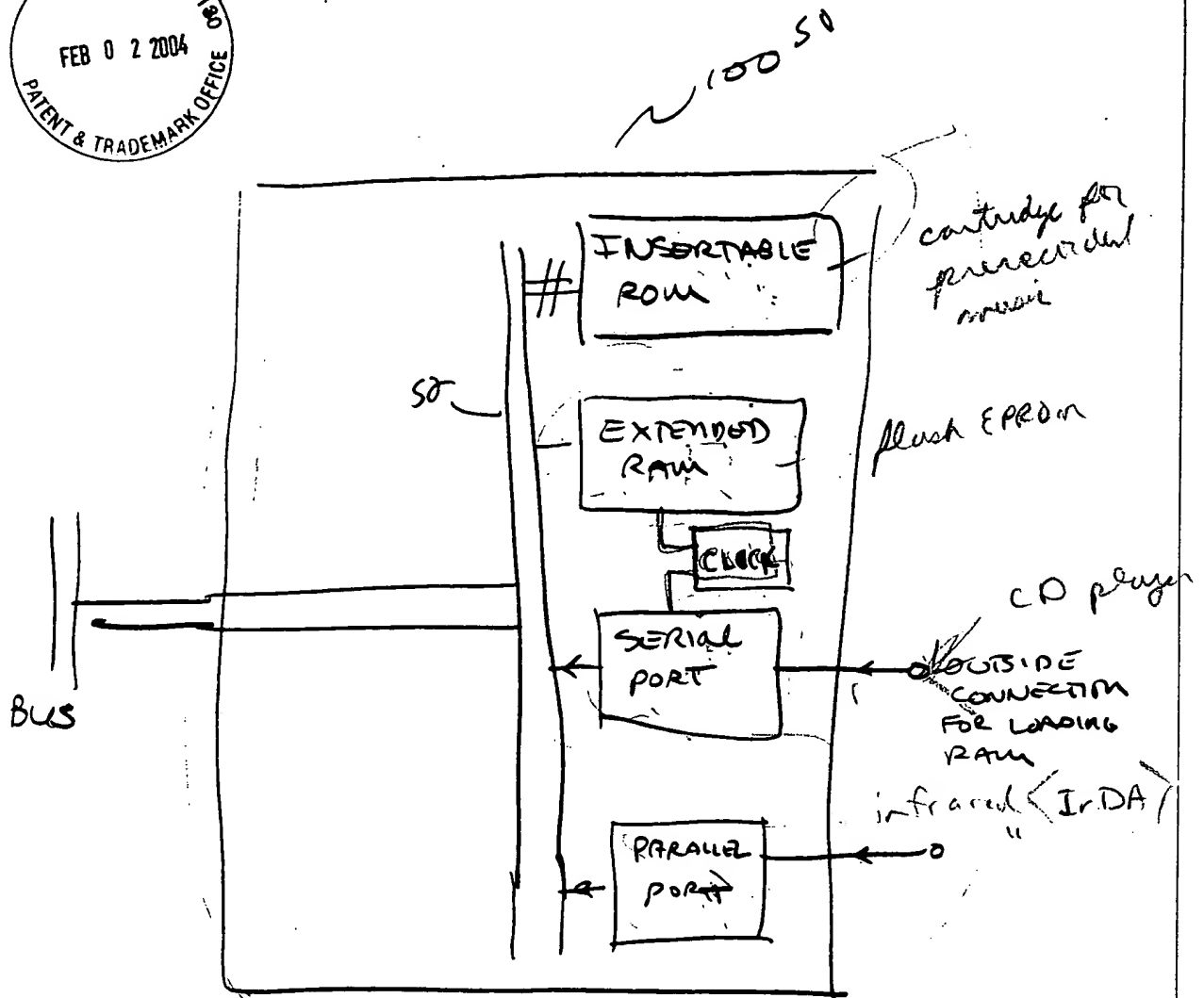
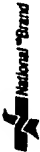
⊗ PLUG-IN ROM AND/OR  
EXTENDED RAM w/ SERIAL and/or parallel  
port for loading music or other audio  
from the output of a PC (i.e., web-access)  
OR a DAT or CD player.

Memory organized according to CD-ROM  
STANDARDS (16 BITS/sample, 44.1 K samples/sec)  
in preferred embodiment.

PRD 20 Aug. 97



13-782	500 SHEETS, FILM	5 SQUARE
42-381	50 SHEETS EYE-EASE®	5 SQUARE
42-382	200 SHEETS EYE-EASE®	5 SQUARE
42-389	200 SHEETS EYE-EASE®	5 SQUARE
42-392	100 RECYCLED WHITE	5 SQUARE
42-390	200 RECYCLED WHITE	5 SQUARE



## DIGITAL ENTERTAINMENT APPARATUS.

DRJ 20 Aug 97

different clock speeds

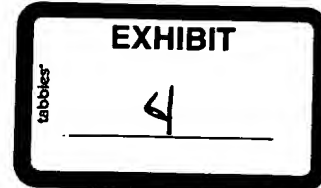
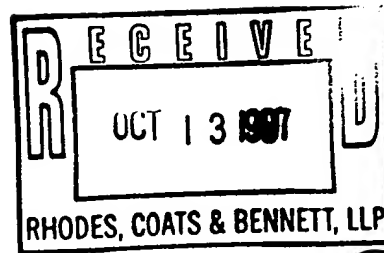
**ERICSSON**



October 10, 1997

VIA FEDERAL EXPRESS

David E. Bennett, Esq.  
Rhodes, Coats and Bennet, L.L.P.  
909 Glenwood Avenue  
Box 5  
Raleigh, NC 27602



**REQUEST TO FILE PATENT APPLICATION**

**RE: Ericsson Docket No. EUS01180-RMOT**  
**Title: "CELLULAR TELEPHONE WITH EXPANSION MEMORY"**  
**Inventors: Nils Rydbeck and John Fussell**

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Dear David:

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This case is administered according to Ericsson's fixed fee billing procedure established by Ericsson letter of March 13, 1996. A copy of the applicable Fee/Allowance Schedule is enclosed for your convenience. Technology Center 2600

Please prepare and file a patent application in the U.S. Patent and Trademark Office on the above-referenced invention. A copy of the invention disclosure and the inventors' questionnaire are enclosed. Any potential statutory bar date should be identified in one of these two documents; however, any potential bars should also be verified with the inventor(s).

If you wish to discuss any matter regarding this application, please do not hesitate to contact me. Please contact the inventor(s) for any technical assistance in preparing the application. A first draft of the application should be in the inventor(s) hands within three (3) months. Please advise if there is any problem with this schedule.

Very truly yours,

David C. Hall  
Intellectual Property Counsel

Enclosures

DCH0366



Certificate Number FM 11374

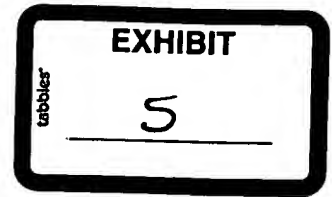
**Ericsson Inc.**

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January 19, 1998

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**RE: U.S. Patent Application  
CELLULAR PHONE WITH EXPANSION MEMORY FOR AUDIO AND VIDEO  
STORAGE**

Dear Rydbeck, and Fussell:

Enclosed please find the first draft of the above referenced application. Please review and fax me any changes or comments you may have.

Please do not hesitate to call if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "David E. Bennett". The signature is stylized with a large, sweeping flourish at the end.

David E. Bennett

cc: David C. Hall, Esq.

DEB/sw  
Enclosure  
P-4015.100